

	FIG.	2	
DEVICE IDENTIFIER	STORAGE PORT IDENTIFIER	CHANNEL ADAPTER IDENTIFIER	COMPUTER PORT IDENTIFIER
H R400 1111 0101	WWN1	1	WWNA
H R400 1111 0102	WWN2	1	WWNB
H R400 1111 0103	WWN1	1	WWNA
H R400 1111 0104	IPAddress3	2	IPAddressD

FIG.3

	EXCESSIVELY LARGE ALLOCATION CAPACITY	PROPER ALLOCATION CAPACITY	EXCESSIVELY SMALL ALLOCATION CAPACITY
COMPUTER 1		0 0	
COMPUTER 2			0
COMPUTER 3	0		
:			

FIG.4A

1	7		<u>}</u>	<u>}</u>	
0	ALLOCATIOI STATE	PROPER	EXCESSIVELY SMALL	EXCESSIVELY LARGE	PROPER
006	CAPACITY COLLECTION YES/NO	YES	YES	YES	ON
	CAPACITY SECURING SECURING COLLECTION STATE RATIO RATIO	120	130	130	115
	LOWER LIMIT SECURING RATIO	110	120	120	105
	CAPACITY				
	DEVICE IDENTIFIER	H R400 1111 0101 20GB	H R400 1111 0102 80GB	H R400 1111 0105 40GB	H R400 2222 0104 40GB
	COMPUTER DEVICE	GENERAL COMPUTER H R400	DATABASE COMPUTER H R400	COMPUTER H R400 1	DATABASE COMPUTER H R400
	DATA APPLICA IDENTI- TION FIER KIND	GENERAL	DATABASE	FILE SERVER	DATABASE
!	DATA IDENTI- FIER	ID1	102	ID3	ID4

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FIG.4C

FIG.4D

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	OCITION SCURING SCURIN
	ANT SEC
	PORTA GREE

	066	ADDITION SECURING WIDTH	+2	+5	710
)		ADDITION SECURING RATIO	0+	+10	VC.
1 - -	,	IMPORTANT SECURING DEGREE RATIO	1	2	2

APPLICATION SECURING SECURING KIND RATIO	ADDITION SECURING RATIO	ADDITION SECURING WIDTH	ACCESS ADDITION CHARACTER- SECURING ISTICS	ADDITION SECURING RATIO	ADDITION SECURING WIDTH	IMP
GENERAL	-5	+5	ONLY READ	-0	+2	-
DATABASE	+10	+5	READ-WRITE +5	+5	+5	2
FILE SERVER	+20	+10	WRITE ONCE +10	+10	+2	3
ARCHIVE	0+	+2	CHANGE	+5	+10	

FIG.5

			FIG.5	3.5	1		910
DATA OBTAINED IDENTIFIER TIME	OBTAINED TIME	USED CAPACITY	OBTAINED PERIOD	USED OBTAINED USED CAPACITY	MINIMUM USED CAPACITY	THE NUMBER OF READ TIMES	THE NUMBER OF WRITE TIMES
ID1	2002/10/19 23:00	15GB	3weeks	15GB	13GB	10000	500
ID1	2002/11/09 23:00	16GB	3weeks	16GB	14GB	10000	300
ID1	2002/11/30 23:00	16GB	3weeks	16GB	15GB	10000	400
ID1	2002/12/21 23:00	16GB	3weeks	16GB	14GB	10000	300

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DEVICE IDENTIFIER	CAPACITY COST	COST	USED COMPUTER
H R400 1111 0101	20GB	нвн	COMPUTER 1
H R400 1111 0102	80GB	нвн	COMPUTER 2
H R400 1111 0103	40GB	нвн	NON-EXISTENCE
H R400 1111 0104	40GB	MIDDLE	MIDDLE NON-EXISTENCE
H R400 1111 0105	40GB	нен	COMPUTER 3
H R400 1111 0106	80GB	LOW	NON-EXISTENCE
H R400 1111 0107	40GB	LOW	NON-EXISTENCE
H R400 2222 0102	80GB	MIDDLE	MIDDLE NON-EXISTENCE
H R400 2222 0104 40GB	40GB	MIDDLE	MIDDLE COMPUTER 1

FIG.6

FIG.7A

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NETWORK IDENTIFIER	PORT IDENTIFIER	
1	WWN1	
1	WWN2	
2	IPAddress3	
3	IPAddress4	
1	WWN8	
1	WWN9	
1	WWNA	
1	WWNB	
2	IPAddressC	
2	IPAddressD	
3	IPAddressE	

FIG.7B

F IV	G.7 B
NETWORK IDENTIFIER	NETWORK NAME
1	FC1
2	IP1
3	MANAGEMENT IP

FIG.8A

		830
STORAGE DEVICE IDENTIFIER	CHANNEL ADAPTER IDENTIFIER	STORAGE PORT IDENTIFIER
H R400 1111	1	WWN1
H R400 1111	1	WWN2
H R400 1111	2	IPAddress3
H R400 1111	2	IPAddress4
H R400 2222	1	WWN8
H R400 2222	1	WWN9

FIG.8B

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COMPUTER IDENTIFIER	COMPUTER PORT IDENTIFIER
COMPUTER 1	WWNA
COMPUTER 2	WWNB
COMPUTER3	IPAddressC
COMPUTER 4	IPAddressD
MANAGEMENT COMPUTER	IPAddressE



